

Amendments to the Claims:

The following listing of claims replaces all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-12 (canceled).

Claim 13 (currently amended): A method of manufacturing an optical-quality polarized part comprising:

forming a high impact polyurethane-based optical construct by admitting a liquid-phase polymeric material into a mold cavity, wherein the liquid-phase polymeric material is formulated to set within about 30 seconds, and wherein the mold cavity is defined in part by a sidefill gasket including one or more inlet port holes for admitting the liquid-phase polymeric material into the mold cavity to fill the mold cavity within about 30 seconds and further including an adjacent reservoir for supplying additional liquid-phase polymeric material into the mold cavity via the one or more inlet port holes as the admitted material shrinks during cure; and

bonding a polarizer to the optical construct.

Claim 14 (previously presented): A method of manufacturing an optical-quality polarized part according to claim 13 wherein the step of admitting liquid-phase polymeric material into the mold cavity includes admitting such material onto one side of the polarizer.

Claim 15 (previously presented): A method of manufacturing an optical-quality polarized part according to claim 13 wherein the step of admitting liquid-phase polymeric material into the mold cavity includes admitting such material onto both sides of the polarizer.

Claim 16 (previously presented): A method of manufacturing an optical-quality polarized part according to claim 15 wherein the step of admitting liquid-phase polymeric

material into the mold cavity includes admitting such material simultaneously onto both sides of the polarizer.

Claim 17 (previously presented): A method of manufacturing an optical-quality polarized part according to claim 13 wherein the step of bonding the polarizer to the optical construct occurs after the step of forming the optical construct.

Claim 18 (original): A method of manufacturing an optical-quality polarized part according to claim 13 wherein the polarizer comprises a polyethylene terephthalate film.

Claim 19 (previously presented): A method of manufacturing an optical-quality polarized part according to claim 13 wherein:

- the sidefill gasket further includes one or more vent holes; and
- the step of forming includes venting gas and/or excess liquid-phase polymeric material from at least one side of the polarizer via the one or more vent holes.

Claim 20 (original): A method of manufacturing an optical-quality polarized part according to claim 13 wherein the optical construct is a lens formed with the polarizer at or near a front surface of the lens.

Claim 21 (original): A method of manufacturing an optical-quality polarized part according to claim 13 further comprising the step of treating the polarizer for integral bonding to the optical construct.

Claim 22 (original): A method of manufacturing an optical-quality polarized part according to claim 19 further comprising the step of treating the polarizer for integral bonding to the optical construct.

Claim 23 (currently amended): A method of manufacturing a polarized lens comprising:

- positioning a polarizer within a mold cavity that is defined in part by a sidefill gasket including one or more inlet port holes and an adjacent reservoir; and
- forming a high-impact, polyurethane-based optical construct by admitting a liquid-phase polymeric material into the mold cavity via the one or more inlet port holes,

wherein the liquid-phase polymeric material is formulated to set within about 30 seconds,
the reservoir thereafter supplying additional liquid-phase polymeric material into the
mold cavity via the one or more inlet port holes as the previously admitted material
shrinks during cure;

wherein the method forms a solid polarized lens with the polarizer at or near a
front surface of the lens;

wherein the polarizer comprises a polyethylene terephthalate film.

Claim 24 (previously presented): A method of manufacturing a polarized lens according
to claim 23 wherein:

the sidefill gasket further includes one or more vent holes; and

the step of forming includes venting gas and/or excess liquid-phase polymeric
material from at least one side of the polarizer via the one or more vent holes.

Claim 25 (previously presented): A method of manufacturing a polarized lens according
to claim 23 further comprising a step of applying a hard coating to the surface of the
polarizer.

Claim 26 (previously presented): A method of manufacturing a polarized lens according
to claim 23 further comprising a step of treating the surface of the polarizer for integral
bonding to the lens.

Claim 27 (currently amended): A method of manufacturing a polarized lens comprising:
positioning a polarizer within a mold cavity that is defined in part by a sidefill
gasket including one or more inlet port holes and an adjacent reservoir; and

forming a high-impact, polyurethane-based optical construct by admitting a
liquid-phase polymeric material into the mold cavity via the one or more inlet port holes,
wherein the liquid-phase polymeric material is formulated to set within about 30 seconds,
the reservoir thereafter supplying additional liquid-phase polymeric material into the
mold cavity via the one or more inlet port holes as the previously admitted material
shrinks during cure; and

wherein the method forms a solid polarized lens with the polarizer at or near a

front surface of the lens;

and wherein the polarizer comprises a wafer.

Claim 28 (previously presented): A method of manufacturing a polarized lens according to claim 27 wherein:

the sidefill gasket further includes one or more vent holes; and

the method further includes a step of venting gas and/or excess liquid-phase polymeric material from at least one side of the polarizer via the one or more vent holes.

Claim 29 (previously presented): A method of manufacturing a polarized lens according to claim 27 further comprising a step of applying a hard coating to the surface of the polarizer.

Claim 30 (previously presented): A method of manufacturing a polarized lens according to claim 27 further comprising a step of treating the surface of the polarizer for integral bonding to the lens.

Claim 31 (previously presented): A method of manufacturing an optical-quality polarized part according to claim 13 wherein:

the one or more inlet port holes of the sidefill gasket include a plurality of inlet port holes; and

the step of admitting liquid-phase polymeric material into the mold cavity includes admitting such material via the plurality of inlet port holes onto both sides of the polarizer.

Claim 32 (previously presented): A method of manufacturing a polarized lens according to claim 27 wherein:

the one or more inlet port holes of the sidefill gasket include a plurality of inlet port holes; and

the step of admitting liquid-phase polymeric material into the mold cavity includes admitting such material via the plurality of inlet port holes onto both sides of the polarizer.